

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

8-10 (Cancelled)

12-14 (Cancelled)

15. (New) : A rotating table apparatus comprising:

a house^{ing} which has a gap portion;

a driven shaft supported by said housing and driven by an actuator;

a rotating table which is rotatingly driven by said driven shaft using a cam and cam followers; and

oil that is for lubricating said cam and said cam followers and that is contained in said gap portion;

wherein ^{AB} said housing has an opposing surface which opposes an end surface of said rotating table,

wherein there is a space between said opposing surface and said end surface in a direction along a rotation axis of said rotating table, and

wherein said space is linked with said gap portion and a portion of said oil flows from said gap portion and a portion of said oil flows from said gap portion into said space while said rotating table is stopped.

new limitation

16. (New) : A rotating table apparatus according to Claim 15, wherein said space is between about 0.005 mm and 0.2 mm.

17. (New) : A rotating table apparatus according to claim 15, wherein said cam is a roller gear cam and said rotating table intermittently rotates.

18. (New) : A rotating table apparatus according to claim 17, wherein a tool is provided in said rotating table.

19. (New) : A rotating table apparatus according to Claim 17, wherein said rotating table is provided with a chuck for chucking a workpiece to process an object.